

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/IB2004/052640

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 G01T1/20

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**
 Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 G01T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, BIOSIS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/011572 A1 (KAJIWARA KENJI ET AL) 31 January 2002 (2002-01-31) page 3, paragraph 55 - page 8, paragraph 126; figures 1,3,4,7,11,12	1-3,5-10
Y	-----	4,11
X	US 4 492 869 A (SUZUKI ET AL) 8 January 1985 (1985-01-08) column 2, line 29 - line 68 column 4, line 52 - column 9, line 41 figures 2,4,5,7	1,3,9
X	-----	12
X	EP 1 089 091 A1 (HITACHI METALS, LTD) 4 April 2001 (2001-04-04) page 2, line 5 - page 3, line 24 figures 1,2	4,11
Y	-----	
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*8\* document member of the same patent family

Date of the actual completion of the international search

26 January 2005

Date of mailing of the international search report

03/02/2005

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In International Application No  
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 4 845 363 A (AKAI ET AL) 4 July 1989 (1989-07-04) the whole document -----</p>	12

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/IB2004/052640

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2002011572	A1	31-01-2002	JP	2002116261 A	19-04-2002
US 4492869	A	08-01-1985	JP	1333593 C	28-08-1986
			JP	57070476 A	30-04-1982
			JP	60058430 B	19-12-1985
			DE	3141755 A1	08-07-1982
EP 1089091	A1	04-04-2001	JP	2001099941 A	13-04-2001
			US	6495845 B1	17-12-2002
US 4845363	A	04-07-1989	JP	62071881 A	02-04-1987

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